

42. The method of claim 41 wherein there are sixteen pools of reverse transcription reactions and there are 16 different reverse transcription primers.

43. The method of claim 42 wherein there are  $4^x$  subpools of polymerase chain reactions, where X is the difference between the number of nucleotides that the 5' PCR primer extends into the insert sequence and the number of nucleotides that the reverse transcription primer extends into the insert sequence.

### REMARKS

Entry of the amendments and examination in view of the amendments is respectfully requested. Based on the amendments and the accompanying discussion it is submitted that the claims as amended describe patentable subject matter, and therefore it is requested that the examiner consider the application in view of the amendments.

#### I. The Amendments

Many of the amendments are grammatical or serve to more particularly define the invention, and do not add new matter. The amendment to be inserted at page 1, line 7, sets forth the relationship of the present application to related applications. The amendment to be inserted at page 12, line 13 simply copies into the specification the text of claims 15 and 16 as originally filed, and as such adds no new matter.

The amendments to the Sequence Listing are to make the Sequence Listing consistent with the current requirements for form. No new matter is added.

Support for claim 38 is found at least at page 10, lines 8-33; page 17, line 28 to page 18, line 8; page 37, line 29 to page 38, line 3; page 40, line 13 to page 42, line 32; and Figures 1 and 2.

Support for claim 39 is found at least at page 40, line 13 to page 42, line 32; and Figures 1 and 2.

Support for claim 40 is found at least at page 11, lines 30-34; page 23, lines 9-14; and page 53, lines 9-12.

Support for claim 41 is found at least at page 28, line 4 to page 29, line 20 and page 32, lines 4-6.

Support for claim 42 is found at least at page 10, lines 8-33.

Support for claim 43 is found at least at page 30, lines 16-21; page 32, lines 1-21.


As can be seen from the support identified above, no new matter is added by the amendments.

II. Summary

Entry of the amendments is respectfully requested. The Examiner is invited to telephone the undersigned if it would be considered helpful in examining the application.

Respectfully submitted,

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By   
Thomas Fitting, Reg. No. 34,163

THE SCRIPPS RESEARCH INSTITUTE  
Office of Patent Counsel  
10550 N. Torrey Pines Road  
Mail Drop TPC-8  
La Jolla, CA 92037  
(858) 784-2937